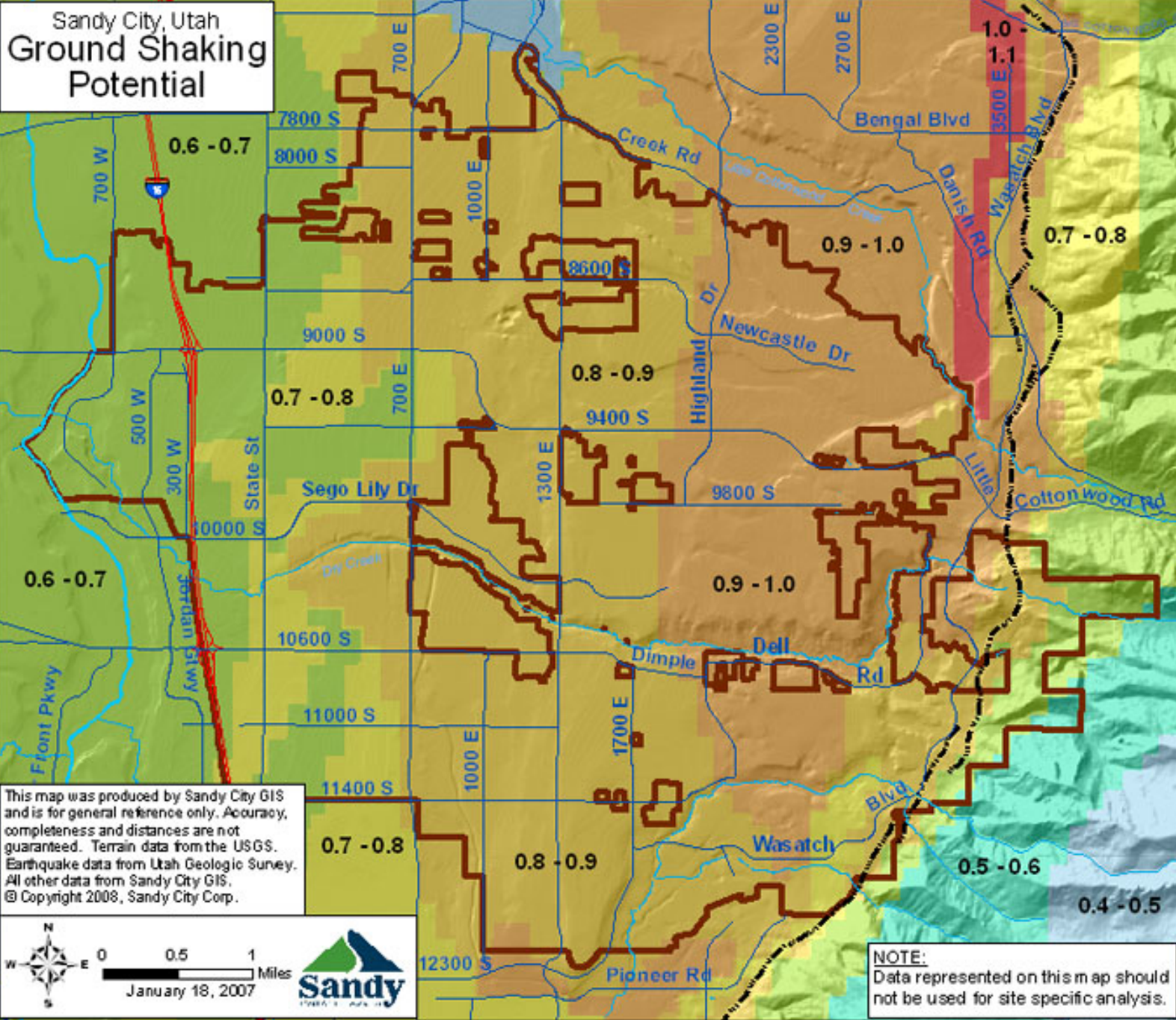










# Sandy City, Utah Ground Shaking Potential



Relationship of Peak Horizontal Ground Acceleration (PGA) to Modified Mercalli (MM) Intensity (After Wald et al., 1999)

Peak Ground Acceleration (PGA)		PGA(g)	MM Intensity	Perceived Shaking	Damage
	0.4 - 0.5		0.8 - 0.9	Severe - Persons Driving Cars Disturbed	Moderate to heavy - Damage slight in specially designed structures; considerable in ordinary substantial buildings with partial collapse; great in poorly built structures. Chimneys toppled.
	0.5 - 0.6		0.9 - 1.0		
	0.6 - 0.7		1.0 - 1.1	Violent	Heavy - Damage considerable in specially designed structures; well designed frame structures thrown out of plumb; great in substantial buildings, with partial collapse. Buildings shifted off foundations.
	0.7 - 0.8		Faults		

Ground Shaking data was created by UGS using a magnitude 7 earthquake simulation